9: Surface Water Flooding

Impact on Surface Water Flooding

As well as considering the risk of direct flooding from the three main rivers in Comrie, the impact of the scheme on surface water drainage was considered.

The flood scheme must manage the risk of surface water gathering behind the proposed flood defences. This can occur when the natural path for overland flow to a river is blocked by the new flood defence.

To assess the risk of surface water flooding, the drainage networks in Comrie were included in the river flood model. These networks can be seen in Figure 15.

No work will be carried out on the existing drainage networks as part of the flood scheme. However, localised drainage measures (e.g. additional drains and drainage channels) will be included to reduce the risk of surface water gathering behind the proposed flood defences.

In general the flood scheme will not increase the risk of surface water flooding in Comrie, although some mitigation will be required for a small number of properties. This will involve the use of property flood protection products or modifications at and around those properties to keep surface water out or force it to flow in a direction away from the building. These works will be discussed and agreed with affected landowners before the outline design is finalised.

Residual Risk

The flood scheme will reduce the risk of river flooding to residential properties and businesses, while ensuring that the existing surface water flood risk is not increased.

Particularly intense rainfall events may still cause some surface water to pool in certain areas for a time – but our modelling work predicts that this will not affect any properties.

Routine maintenance of road drains and sewers will continue following completion of the scheme.

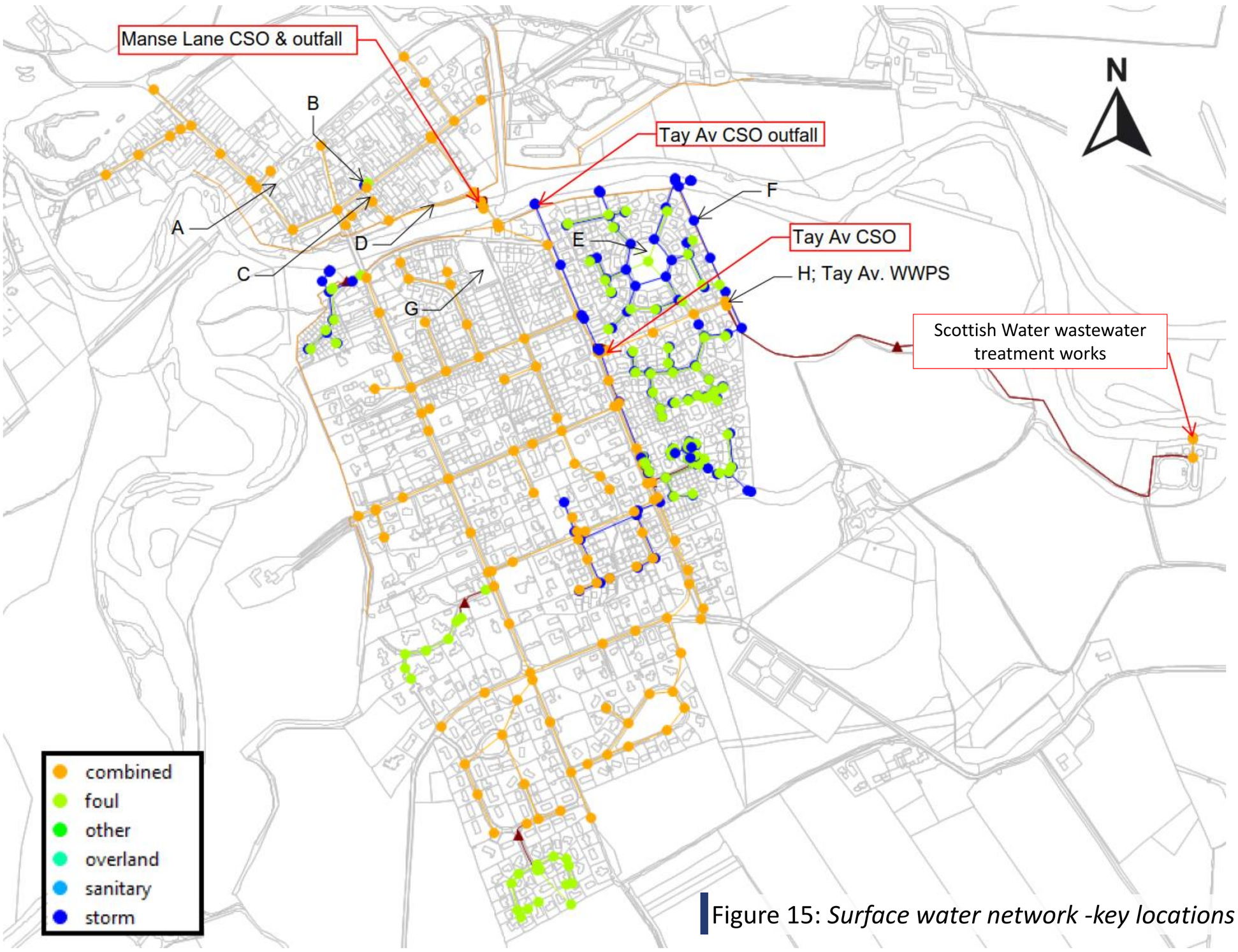

Figure 15: *Surface water network -key locations highlighted*